cess services subject to federal jurisdiction. If this were not the case, every ILEC offering DSL would have refused to file DSL service tariffs with the FCC. To the contrary, however, Bell Atlantic, GTE, BellSouth and Pacific Bell filed and defended their tariffs at the federal level. Each of these carriers argued that DSL services must be subject to federal jurisdiction as dedicated telecommunications transmission facilities that give end users network access for Internet and data services. 68 These arguments only strengthen the Commission's own conclusion that xDSLbased advanced services are telecommunications services included within the Act's exchange access classification. Therefore, the Commission correctly held in the Advanced Services Order that ILECs must provide interconnection under Section 251(c)(2) to all CLECs that offer advanced services.

R. The Commission's Historical "End-to-End" Analysis is an Inappropriate **Jurisdictional Construct for Advanced Services**

In the GTE DSL Order, the Commission engaged in a jurisdictional analysis of advanced services that reached the correct conclusion, but (in part) for the wrong reason. Indeed, the Commission's logic in the GTE DSL Order likely has contributed to the confused argumentation in this case. Therefore, the Commission should explicitly repudiate a portion of its analysis in the GTE DSL Order in order to present a consistent, sound and technologically viable regulatory position on advanced services.

In the GTE DSL Order, the Commission partially relied on an historical "end-to-end" analysis for establishing its jurisdiction.⁶⁹ This analytical construct cannot be squared with today's packet-switched environment and should be rejected finally by the Commission in the

⁶⁷ First Report and Order, 11 FCC Rcd. at 15,934.

⁶⁸ CC Docket No. 98-79, Direct Case of GTE at 6 (Sept. 8, 1998); CC Docket No. 98-168, Bell Atlantic's Direct Case at 4-5 (Oct. 6, 1998); CC Docket No. 98-161, Direct Case of BellSouth Telecommunications, Inc. at 15 (Sept. 11, 1998).

69 GTE DSL Order, 13 FCC Rcd. at 22475-78.

context of advanced services. End-to-end analysis, also termed "totality of the communication" analysis, 70 holds that the ultimate end points of a communication determines the jurisdictional nature of the communication.⁷¹ The presence of intermediate switching points or exchange boundaries is irrelevant to this inquiry. 72 The Commission, applying end-to-end analysis, principally relied upon its holding in BellSouth MemoryCall Order⁷³ regarding jurisdiction over voice mail. BellSouth MemoryCall stands only for the unremarkable proposition that the Communications Act of 1934⁷⁴ preempts states from regulating voice mail service, an enhanced service, because it stores messages from interstate calls. The Commission recognized that voice mail is an enhanced service separate from voice telephony, which "uses the same equipment and underlying basic services" but is subjected it to a different regulatory regime.⁷⁵

Nothing in the BellSouth MemoryCall Order, however, requires the Commission to determine that, despite Computer II, telecommunications and information services have now become a single, seamless service that cannot be differentiated. Moreover, nothing in that Order requires the Commission to use its end-to-end analysis, which is helpful in the context of traditional circuit-switched telephony, to an altogether new service that uses wireline facilities for Internet packet-switched communications.

This historical construct cannot simply be borrowed in this proceeding to DSL-based advanced services. In fact, the Commission's Office of Plans and Policy has already concluded

⁷⁰ GTE DSL Order, 13 FCC Rcd. at 22,473.

⁷¹ *Id.*, 13 FCC Rcd. at 22,475.

⁷² *Id.*, 13 FCC Rcd. at 22,475.

Petition for Emergency Relief and Declaratory Ruling Filed by BellSouth Corporation, Memorandum Opinion and Order, 7 FCC Rcd. 1619 (1992) ("BellSouth MemoryCall Order").

⁷⁴ The Commission cited Section 153 the Communications Act, which gives the Commission exclusive jurisdiction over interstate wire communication for "transmission of writing, signs, signals, pictures, and sounds of all kinds by aid of wire, cable, or other like connection between the points of origin and reception of such transmission, including the instrumentalities, facilities, apparatus, and services (among other things, the receipt, forwarding, and

that "simply mapping the rules that apply to other services onto the Internet will produce outcomes that are confusing, perverse, or worse." As Rhythms has explained, "the 'end points' of communication become virtually irrelevant in the 'connectionless' medium of today's packet-switched based Internet technology." Further, application of "end-to-end" analysis in this instance leads inevitably to policy results that run counter to the Commission's entire regulatory regime for wire communications. The Commission's conclusion that DSL service extends from the end user to "any distant website" conflates DSL telecommunications service with ISP service such that, a fortiori, a DSL service providers becomes an ISP or an ISP becomes a DSL provider. This result would, of course, obliterate the Commission's long-standing distinction between telecommunications services and information services created with Computer II. To preserve this distinction, the Commission must discipline itself to separate the transmission component of DSL — which is telecommunications — from the Internet and data content it supports. Or, to coin a phrase, the Commission must separate the pipe from the cloud.

In fact, the Commission itself defended its decision to hold telecommunications separate from information services on the grounds that "[a]n approach in which a broad range of information service providers are simultaneously classed as telecommunications carriers, and thus presumptively subject to the broad range of Title II constraints, could seriously curtail the regu-

⁷⁶ Digital Tornado at 1.

⁷⁷ CC Dockets 98-161 et al., Comments of ACI Corp. and FirstWorld Communications, Inc. on the Direct Cases of BellSouth, GTE and PacBell at 3 (Sept. 21, 1998). Indeed, the Commission has recognized that Internet communications "do[] not provide sufficient information to identify the routing of the call for jurisdictional purposes." FCC, Digital Tornado: The Internet and Telecommunications Policy, OPP Working Paper Series, No. 29 at 45 (March 1997)("Digital Tornado").

⁷⁸ See CC Dockets 98-161 et al., Comments of RCN Telecom Services, Inc. on Petitions for Reconsidera-

[&]quot;See CC Dockets 98-161 et al., Comments of RCN Telecom Services, Inc. on Petitions for Reconsideration at 7 ("The Commission's decision to 'analyze ISP traffic as a continuous transmission from the end user to a distant Internet site' is an anachronistic approach that fails to reflect Internet communications while it needlessly complicates the issue of reciprocal compensation for dial-up traffic.").

⁷⁹ GTE DSL Order, 13 FCC Rcd. at 22,476.

latory freedom . . . of the enhanced-services industry." The Commission can ensure that these classes of services remain separate by relying upon its settled special access regulatory regime to conclude that DSL falls within its exclusive jurisdiction if it meets the ten percent *de minimis* rule.⁸¹

It is precisely because the nature of Internet traffic that DSL carries is wholly unlike voice telephony that application of the traditional end-to-end jurisdictional analysis to DSL-based advanced services inevitably leads to an insoluble and unnecessary jurisdictional inquiry. As the Commission recognized in the *GTE DSL Order*, Internet services are among the primary services that DSL-based services support. Internet traffic is unlike circuit-switched voice telephony because it is a packet-switched communication that is prohibitively difficult, if not impossible, to trace as it routes through the network. No single network provides end-to-end, or even POP-to-POP, transport of Internet data. 83

It is the phenomenon of packet-switching that makes the Internet not a definable network but a "cloud" of information services that has no origination or termination. This "cloud" is wholly separate and distinct from the facility that supports it, be it switched dial-up services or DSL-based advanced services. Further, because Internet packet switching involves no single connection between a client and server, it is simply not possible to classify Internet traffic by jurisdiction. For this reason, "end-to-end" analysis with respect to classifying DSL-based advanced services is an impossible task. Therefore, the Commission should rely on its special access analysis for asserting jurisdiction over advanced services. This analysis, as demonstrated

⁸⁰ Stevens Report ¶ 46.

^{81 47} C.F.R. § 36.154.

⁸² GTE DSL Order, 13 FCC Rcd. at 22,478.

⁸³ Joint Opposition of Netscape Communications Corporation, Voxware, Inc. and InSoft, Inc., *The Provision of Interstate and International Interexchange Telecommunications Service Via The "Internet" By Non-Tariffed, Uncertificated Entities*, RM No. 8775, at 16 (filed May 8, 1996).

above, not only clarifies the jurisdictional issue but is consistent with the Commission's application of Section 251's interconnection requirements to DSL-based carriers.

IV. THE COMMISSION HAS CLEAR AUTHORITY UNDER SECTION 706 TO APPLY MARKET-OPENING MEASURES FOR FACILITATING DEPLOYMENT OF ADVANCED SERVICES

According to the plain language of Section 251(c), the only ILEC obligation applicable exclusively to "exchange access" providers is the interconnection requirement; unbundling and collocation access apply to any competitive telecommunications provider. Thus, even if the Commission agrees that advanced services are not exchange access services, this finding affects only the interconnection requirement of Section 251. Even absent a Section 251 mandate, however, the Commission can apply the principle of Section 251 interconnection to advanced services according to its expansive regulatory authority under Section 706.

In Section 706 of the 1996 Act, Congress has empowered the Commission to require ILECs to provide reasonable access to the facilities required for advanced services. Under this authority, the Commission may employ the market-opening provisions of the 1996 Act to "encourage the deployment of advanced services" without regard to the class of service sought to be deployed.⁸⁴ Therefore, even if the Commission accepts that the classes of services articulated in Section 251(c)(2) have regulatory meaning, it can and should apply the provisions of that section in order to ensure widespread deployment in broadband advanced services deployment.

A. Only the Interconnection Requirement of Section 251(c)(2) Is Limited to Exchange Services

Only Section 251(c)(2) refers specifically to the "telephone exchange" and "exchange access" classes of service in its articulation of ILEC obligations. Of the six ILEC requirements

^{84 1996} Act, § 706(a).

outlined in Section 251, only subpart (c)(2) refers to specific classes of service eligible for network access.

Section 251's obligation to provide UNEs, detailed in subpart (c)(3), requires ILECs to provide UNEs to "any requesting telecommunications carrier" for the provision of any telecommunications service. ⁸⁵ In addition, ILEC collocation obligations require "collocation necessary for interconnection or access to UNEs." Thus, collocation obligations flow from both interconnection under (c)(2) and access to UNEs under (c)(3), granting CLECs access to collocation facilities for one or both purposes. Therefore, to the extent that the classes of service retain any meaning at all under the 1996 Act, they cannot impede or preclude CLEC access to UNEs or collocation to any degree.

B. Section 706 Grants the Commission Broad Authority to Mandate Interconnection on Behalf of Advanced Services Providers

Section 706 charges the Commission to "encourage the deployment on a reasonable and timely basis of advanced telecommunications capability to all Americans" by employing such regulatory methods as are necessary to achieving advanced services deployment. This provision unequivocally empowers the Commission to facilitate deployment of advanced services by application of interconnection requirements for advanced services, whether or not such a ILEC obligation is also specifically compelled under Section 251.

Under Section 706, the Commission may address circumstances that inhibit the deployment of advanced services by employing "regulating methods that remove barriers to infrastructure investment." These methods include, but are not limited to, "measures that promote compe-

⁸⁵ Section 251(c)(3).

⁸⁶ Section 251 (c)(6).

^{87 1996} Act, § 706(b).

tition in the local telecommunications market." By its own language, then, Section 706 provides the Commission with the authority to impose upon incumbents whatever measures are necessary to "remove barriers" that inhibit deployment of advanced telecommunications services, including measures that enable and promote competition in advanced services. The biggest barrier to infrastructure deployment, access to the monopoly "last mile" controlled by the ILECs, is the same competitive issue the Commission has addressed in numerous pre-Act proceedings, for which it retains authority and jurisdiction under the Supreme Court's *Iowa Utilities* decision.

For instance, *Computer III*, first promulgated in 1986,⁸⁹ required the Bell operating companies ("BOCs") to allow Open Network Access (ONA) and Comparably Efficient Interconnection (CEI) for their competitors "both to prevent discrimination in access to basic services for enhanced services providers and to promote the increased efficient use of the telecommunications network." This regime required BOCs to provision portions of the telephone networks "on an unbundled and functionally equal basis" to enhanced services providers. These rules were designed to "promot[e] the continued development of competition in the enhanced services marketplace" in order to increase availability of these services for all consumers. ⁹³

^{88 1996} Act, § 706(a).

Amendment of Sections 64.702 of the Commission's Rules and Regulations (Third Computer Inquiry), Report and Order, 104 FCC.2d 958 (1986), vacated California v. FCC, 905 F.2d 1217 (9th Cir. 1990).

⁹⁰ Amendment of Sections 64.702 of the Commission's Rules and Regulations (Third Computer Inquiry), Memorandum Opinion and Order on Reconsideration, 2 FCC Rcd. 3035, 3036 (1987), vacated California v. FCC, 905 F.2d 1217 (1990).

⁹¹ Memorandum Opinion and Order on Reconsideration, 2 FCC Rcd. at 3037.

⁹² *Id.* at 3039.

The Commission's authority to impose ONA/CEI rules was not questioned by the Ninth Circuit in its remand of the *Computer III* orders. "We also agree that the Commission has made a plausible case that ONA, CEI and the growth of bypass technology will be effective in reducing the risk of BOC access discrimination. Thus, the record supports the FCC's determination that *Computer III's* substitution of nonstructural safeguards for structural safeguards will benefit the enhanced service industry." *California v. FCC*, 905 F.2d 1217, 1238 (9th Cir. 1990) (*California I*); "We hold that these orders do not in and of themselves violate the APA because the FCC has not implemented any significant, unexplained departure from prior ONA policy. *California v. FCC*, 4 F.3d 1505, 1506 (1993)(*California II*).

The Commission's task in fostering advanced services under Section 706 is very similar to the goals of *Computer III*. Section 706 requires the Commission to ensure the speedy deployment of advanced telecommunications capability much as *Computer III* was meant to speed deployment of enhanced services to all consumers. Therefore, the Commission's *Computer III* ONA unbundling rules provide a useful analog for the Commission in implementing rules that will achieve Congress's goals in Section 706. Specifically, the Commission should require ILECs to provide advanced services competitors with unbundled access to network facilities in order to facilitate their entry into the market, thereby encouraging "deployment on a reasonable and timely basis" for advanced services.

CONCLUSION

For all these reasons, the Commission should (1) conclude that DSL services are telecommunications services, not information services, for which ILECs must make interconnection by CLECs available, (2) reiterate its conclusion that UNEs and collocation are available to all telecommunications carriers, including DSL providers, regardless of their network transport technologies, (3) reaffirm its holding in the DSL tariffing cases that DSL is an interstate special access service that falls within the definition of "exchange access" in the 1996 Act, and (4) expressly apply its authority under Section 706 and settled 1934 Act provisions to apply interconnection obligations to advanced services separate and apart from Section 251 of the 1996 Act.

Respectfully submitted,

202.955.6460 facsimile

Jeffrey Blumenfeld General Counsel Rhythms NetConnections Inc. 6933 So. Revere Parkway Englewood, CO 80112 303,476,4200 By: Glenn B. Manishin
Christy C. Kunin
Lisa N. Anderson
Stephanie A. Joyce
Blumenfeld & Cohen – Technology Law Group
1625 Massachusetts Avenue, N.W., Suite 300
Washington, D.C. 20036
202.955.6300

Attorneys for Rhythms NetConnections Inc.

Dated: September 24, 1999

CERTIFICATE OF SERVICE

I, Leslie LaRose, do hereby certify that on this 24th day of September, 1999, I have served a copy of the foregoing document via * messenger and U.S. Mail, postage pre-paid, to the following:

Leslie LaRose

*Chairman William E. Kennard Federal Communications Commission 445 12th Street, S.W., Room 8B-201 Washington, D.C. 20554 *Commissioner Susan Ness Federal Communications Commission 445 12th Street, S.W., Room 8B-115 Washington, D.C. 20554

*Commissioner Harold Furchtgott-Roth Federal Communications Commission 445 12th Street, S.W., Room 8A-302 Washington, D.C. 20554 *Commissioner Gloria Tristani Federal Communications Commission 445 12th Street, S.W., Room 8C-302 Washington, D.C. 20554

*Commissioner Michael Powell Federal Communications Commission 445 12th Street, S.W., Room 8A-204 Washington, D.C. 20554 *Larry Strickling Chief, Common Carrier Bureau Federal Communications Commission 445 12th Street, S.W., Room 5C-450 Washington, D.C. 20554

*Dorothy Atwood Legal Advisor to Chairman Kennard Federal Communications Commission 445 12th Street, S.W., Room 8B-201 Washington, D.C. 20554 *Linda Kinney Legal Advisor to Commissioner Ness Federal Communications Commission 445 12th Street, S.W., Room 8B-115 Washington, D.C. 20554

*William Bailey
Legal Advisor to Commissioner
Furchtgott-Roth
Federal Communications Commission
445 12th Street, S.W., Room 8A-302
Washington, D.C. 20554

*Sarah Whitesell Legal Advisor to Commissioner Tristani Federal Communications Commission 445 12th Street, S.W., Room 8A-204 Washington, D.C. 20554 *Kyle Dixon Legal Advisor to Commissioner Powell Federal Communications Commission 445 12th Street, S.W., Room 8C-302 Washington, D.C. 20554

*Robert Atkinson Deputy Chief, Common Carrier Bureau Federal Communications Commission 445 12th Street, S.W., Room 5-C356 Washington, D.C. 20554

*ITS 1231 20th Street, N.W. Washington, D.C. 20036

Mark C. Rosenblum Stephen C. Garavito AT&T Corp. 295 N. Maple Avenue Room 3252G1 Basking Ridge, NJ 07920

Stephen R. Bell Willkie Farr & Gallagher Three Lafayette Centre 1155 21st Street, N.W. Washington, D.C. 20036-3384

Susan M. Miller
The Alliance for Telecommunications
Industry Solutions, Inc.
1200 G Street, N.W., Suite 500
Washington, D.C. 20005

Ronald L. Plesser Stuart P. Ingis Tashir J. Lee Piper & Marbury L.L.P. 1200 19th Street, N.W. Washington, D.C. 20036 *Kathy Brown Chief of Staff, Common Carrier Bureau Federal Communications Commission 445 12th Street, S.W., Room 8B-201 Washington, D.C. 20554

*Stacy Priest Common Carrier Bureau Federal Communications Commission 445 12th Street, S.W. Washington, D.C. 20554

*Janice Myles
Federal Communications Commission
Common Carrier Bureau
Policy and Program Planning Division
445 12th Street, S.W.
Washington, D.C 20554

Thomas Jones
Sophie J. Keefer
Willkie Farr & Gallagher
Three Lafayette Centre
1155 21st Street, N.W.
Washington, D.C. 20036-3384

John T. Lenahan Frank Michael Panek Counsel for Ameritech 2000 W. Ameritech Center Dr. Room 4H84 Hoffman Estates, IL 60195

Stephen L. Earnest M. Robert Sutherland BellSouth Corporation Suite 1700 1155 Peachtree Street, N.E. Atlanta, GA 30306-3610

Thomas M. Koutsky Covad Communications Company 700 13th Street, N.W., Suite 950 Washington, D.C. 20005 Michael J. Ettner General Services Administration 1800 F Street, N.W., Rm. 4002 Washington, D.C. 20405

Terry G. Mahn, Esq. Fish & Richardson P.C. 601 13th Street, N.W. Washington, D.C. 20005

Kecia Boney Richard S. Whitt Lisa B. Smith MCI WorldCom, Inc. 1800 Pennsylvania Avenue, N.W. Washington, D.C. 20006

Rodney L. Joyce J. Thomas Nolan Shook, Hardy & Bacon 600 14th Street, N.W., Suite 800 Washington, D.C. 20005-2004

Steven Gorosh Michael Olsen Glenn Harris NorthPoint Communications, Inc. 222 Sutter Street, 7th Floor San Francisco, CA 94108

Randall B. Lowe Julie A. Kaminski Renee Roland Crittendon Piper & Marbury, L.L.P. 1200 19th Street, N.W., Suite 700 Washington, D.C. 20036

Robert M. Lynch Roger K. Toppins Mark Royer SBC Communications One Bell Plaza, Room 3024 Dallas, TX 75202 Jeffrey S. Linder Wiley, Rein & Fielding 1776 K Street, N.W. Washington, D.C. 20006

Jonathan E. Canis Michael B. Hazzard Kelley Drye & Warren LLP 1200 19th Street, N.W., 5th Floor Washington, D.C. 20036

Dr. H. Gilhert Miller
Mitretek Systems, Inc.
Center for Telecommunications and Advanced Technology
7525 Colshire Drive
McLean, VA 22102

Stephen L. Goodman Halprin, Temple, Goodman & Maher 555 12th Street, N.W., Suite 950 North Tower Washington, D.C. 20004

Ruth Milkman Lawler, Metzger & Milkman LLC Northpoint Communications, Inc. 1909 K Street, N.W., Suite 820 Washington, D.C. 20006

Pat Wood, III Judy Walsh Brett A. Perlman Public Utility Commission of Texas 1701 N. Congress Ave. Austin, TX 78711-3326

Leon M. Kestenbaum Jay C. Keithley Sprint Corporation 1850 M Street, N.W., 11th Floor Washington, D.C. 20036 H. Richard Juhnke Marybeth M. Banks Sprint Corporation 1850 M Street, N.W., 11th Floor Washington, D.C. 20036

David King Adtran, Inc. 901 Explorer Boulevard Huntsville, AL 35806

L. Marie Guillory Jill Canfield 4121 Wilson Boulevard, 10th Floor Washington, D.C. 20037

Ernest G. Johnson
Public Utility Commission
Oklahoma Corporation Commission
P.O. Box 52000-2000
Oklahoma City, OK 73152-2000

Donald B. Russell, Chief Telecommunications Task Force Antitrust Division Department of Justice 1401 H Street, N.W., 8th Floor Washington, D.C. 20530

J. Manning Lee Teresa Marrero Teleport Communications Group Inc. Two Teleport Drive, Suite 300 Staten Island, NY 10311

Linda L. Oliver Hogan & Hartson L.L.P. Columbia Square 555 13th Street, N.W. Washington, D.C. 20004-1109 John H. Harwood II William R. Richardson, Jr. Matthew A. Brill Wilmer, Cutler & Pickering 2445 M Street, N.W. Washington, D.C. 20037

Margot Smiley Humphrey Koteen & Naftalin, LLP 1150 Connecticut Avenue, N.W. Washington, D.C. 20036

Stuart Polikoff Stephen Pastorkovich 21 Dupont Circle, N.W. Washington, D.C. 20036

Donna M. Epps Bell Atlantic 1320 North Court House Road, 8th Floor Arlington, VA 22201

Kevin Sievert Glen Grochowski MCI Communications Local Network Technology 400 International Parkway Richardson, TX 75081

Douglas W. Kinoph Vice President, Regulatory and Legislative Affairs LCI International Telecom Corporation 4250 N. Fairfax Drive Arlington, VA 22203

David J. Newburger
Newburger & Vossmeyer
Counsel for Campaign for
Telecommunications Access
One Metropolitan Square, Suite 2400
St. Louis, MO 63102

Anthony C. Epstein Jenner & Block MCI WorldCom 601 13th Street, 12th Floor Washington, D.C. 20005

Robert W. McCausland Vice-President, Regulatory and Interconnection Allegiance Telecom, Inc. 1950 Stemmons Freeway, Suite 3026 Dallas, TX 75207-3118

John F. Raposa GTE Service Corporation 600 Hidden Ridge, HQE03J27 P.O. Box 152092 Irving, TX 75015-2092

Genevieve Morelli
Executive Vice President and
General Counsel
Competitive Telecommunications Association
1900 M Street, N.W., Suite 800
Washington, D.C. 20036

Robert J. Aamoth Joan M. Griffin Kelley Drye & Warren LLP Competitive Telecommunications Association 1200 19th Street, N.W., Suite 500 Washington, D.C. 20036

Riley M. Murphy Vice President and General Counsel E.spire Communications, Inc. 131 National Business Parkway, Suite 100 Annapolis Junction, MD 20701

Brad E. Mutschelknaus Marieann Z. Machida Kelley Drye & Warren LLP E.spire Communications, Inc. 1200 19th Street, N.W., Suite 500 Washington, D.C. 20036 Lawrence E. Sarjeant Linda Kent Keith Townsend United States Telephone Association 1401 H Street, N.W., Suite 600 Washington, D.C. 20005

Dana Frix Kemal M. Hawa Hyperion Telecommunications, Inc. Swidler & Berlin, Chtd. 3000 K Street, N.W., Suite 300 Washington, D.C. 20007-5116

Gail L. Polivy GTE Service Corporation 1850 M Street, N.W. Washington, D.C. 20036

Cindy Z. Schonhaut, Senior Vice President Government Affairs & External Affairs ICG Communications, Inc. 161 Inverness Drive Englewood, CO 80112

Albert H. Kramer Michael Carowitz Christopher T. McGowan Dickstein Shapiro Morin & Oshinsky LLP ICG Telecom Group, Inc. 2101 L Street, N.W. Washington, D.C. 20037-1526

Steven M.Hoffer CRISP 95 Mariner Green Drive Corte Madera, CA 94925

W. Scott McCollough McCoullough and Associates, P.C. 1801 North Lamar, Suite 104 Austin, TX 78701 Charles C. Hunter Catherine M. Hannan Hunter Communications Law Group 1620 I Street, N.W., Suite 701 Washington, D.C. 20006

Jonathan E. Canis Erin M. Reilly Kelley Drye & Warren, LLP Intermedia Communications Inc. 1200 19th Street, N.W., Suite 500 Washington, D.C. 20036

Barbara A. Dooley Executive Director Commercial Internet Exchange Association 1041 Sterling Road, Suite 104A Herndon, VA 20170

Robert B. McKenna Jeffrey A. Brueggeman US West, Inc. 1020 19th Street, N.W. Washington, D.C. 20036

Cherie R. Kiser
Michael B. Bressman
Mintz, Levin, Cohn, Ferris
Glovsky And Popeo, P.C.
701 Pennsylvania Avenue, N.W., Suite 900
Washington, D.C. 20004

Jonathan Jacob Nadler Brian J. McHugh Squire, Sanders & Dempsey 1201 Pennsylvania Avenue, N.W., Box 407 Washington, D.C. 20044

Cheryl L. Parrion Chairman Public Service Commission of Wisconsin P.O. Box 7854 Madison, WI 53707-7854 Russell M. Blau Swidler, Berlin, Shereff & Friedman KMC Telecom Inc. 3000 K Street, N.W., Suite 300 Washington, D.C. 20007

Robert D. Collet, Chairman of the Board Commercial Internet Exchange Association 1041 Sterling Road, Suite 104A Herndon, VA 20170

Richard Taranto Farr & Taranto 2445 M Street, N.W., Suite 225 Washington, D.C. 20037

David Ellen Senior Counsel Cablevision Lightpath, Inc. 111 New South Road Hicksville, NY 11801

Ronald Binz Debra Berlyn Competition Policy Institute 1156 15th Street, N.W., Suite 310 Washington, D.C. 20005

Richard D. Marks Albert D. Shuldiner Megan H. Troy Vinson & Elkins, L.L.P. 1455 Pennsylvania Avenue, N.W. Washington, D.C. 20004

G. Richard Klein Commissioner Indiana Utility Regulatory Commission 302 W. Washington, Suite E-306 Indianapolis, IN 46204 J. Jeffrey Oxley Assistant Attorney General Minnesota Department of Public Service 1200 NCL Tower 445 Minnesota Street St. Paul, MN 55101-2130

Mark J. Tauber Teresa S. Werner Piper & Marbury, L.L.P. 1200 19th Street, N.W., 7th Floor Washington, D.C. 20036

Jill A. Lesser Steven N. Teplitz America Online, Inc. 1101 Connecticut Avenue, N.W., Suite 400 Washington, D.C. 20036

James M. Smith Excel Telecommunications, Inc. 3000 K Street, N.W., Suite 300 Washington, D.C. 20007

Terrence J. Ferguson Level 3 Communications, Inc. 3555 Farnam Street Omaha, NE 68131

Christopher W. Savage James F. Ireland Cole, Raywid & Braverman, L.L.P. 1919 Pennsylavania Avenue, N.W., Suite 200 Washington, D.C. 20006

Charles Eldering, Ph.D. Telecom Partners Ltd. 900 Town Center New Britain, PA 18901 Maureen A. Lewis Henry Geller Alliance For Public Technology 901 15th Street, N.W., Suite 230 Washington, D.C. 20038-7146

George Vradenburg, III William W. Burrington America Online, Inc. 1101 Connecticut Avenue, N.W., Suite 400 Washington, D.C. 20036

National Association of Development Organizations 444 North Capital Street, N.W. Suite 630 Washington, D.C. 20001

Jeffrey A. Campbell Stacey Stern Albert Compaq Computer Corp. 1300 I Street, N.W. Washington, D.C. 20005

Colleen Boothby Levine, Blaszak, Block and Boothby, LLP 2001 L Street, N.W., Suite 900 Washington, D.C. 20036

Thomas R. Eames President Next Level Communications 6085 State Farm Drive Rohnert Park, CA 94928

David F. Callan Xcom Technologies, Inc. One Main Street Cambridge, MA 02142 Bartlett L. Thomas James J. Valention Mintz, Levin, Cohn, Ferris, Glovsky And Popeo, P.C. 701 Pennsylvania Avenue, N.W., Suite 900 Washington, D.C. 20004-2608

Untied Homeowners Association 1511 K Street, N.W. Washington, D.C. 20005

National Hispanic Council on Aging 2713 Ontario Street, N.W. Washington, D.C. 20009

World Institute on Disability 510 16th Street Suite 100 Oakland, CA 94612

National Association of Commissions of Women 1828 L Street, N.W. Suite 250 Washington, D.C. 20036